

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529478

Luminaire Tested: **GALN-SA4C-827-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17915 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

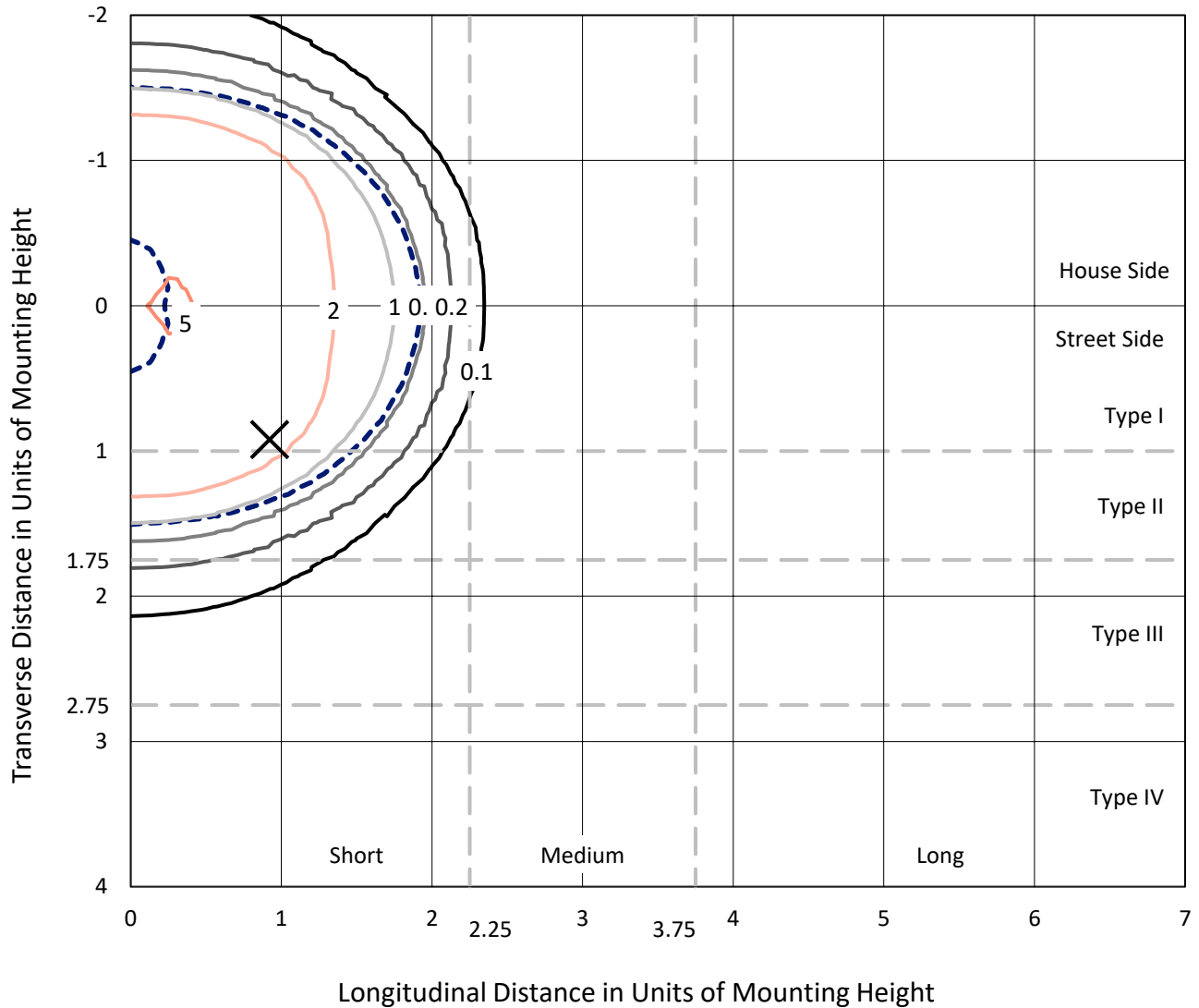
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

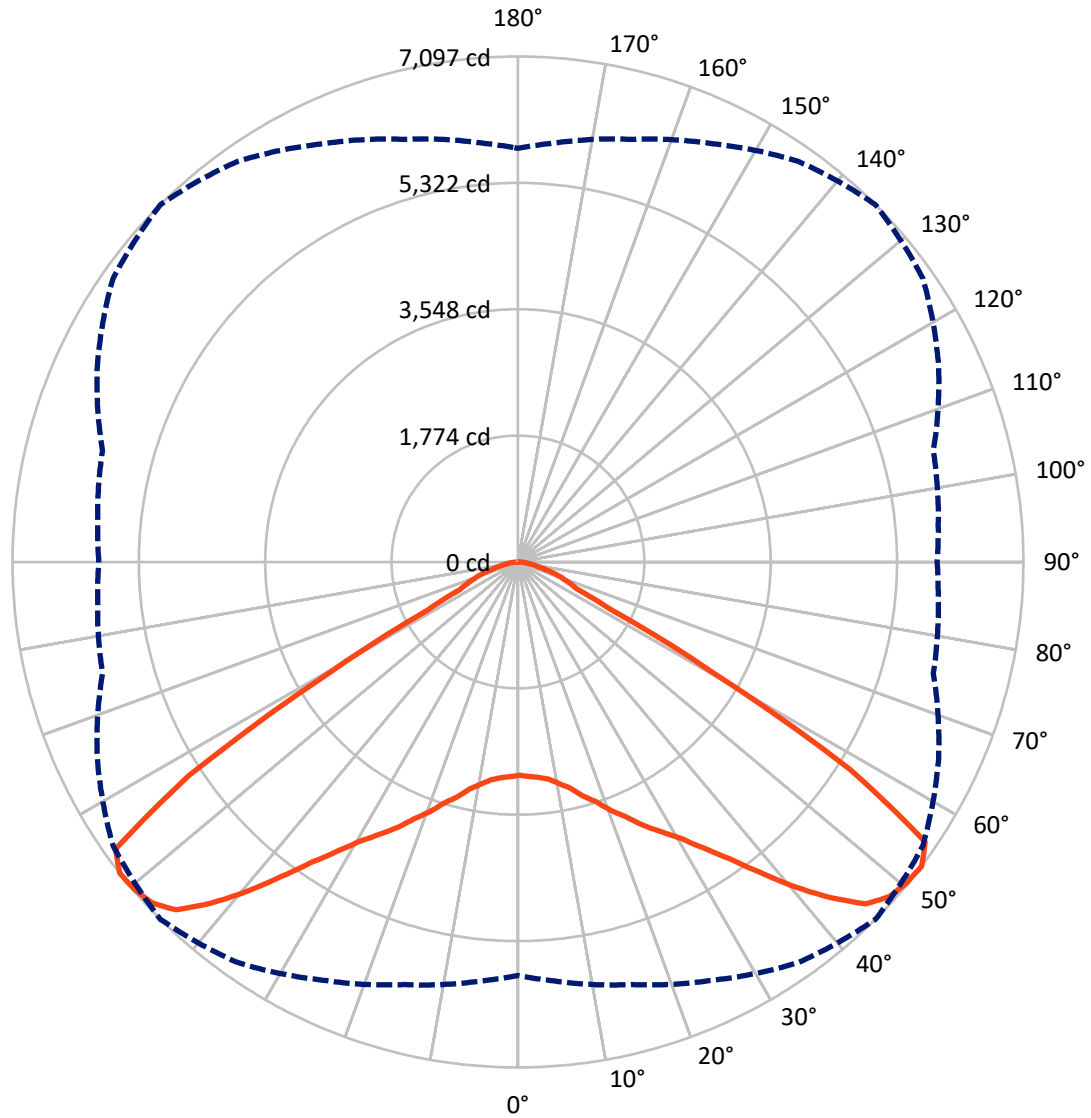
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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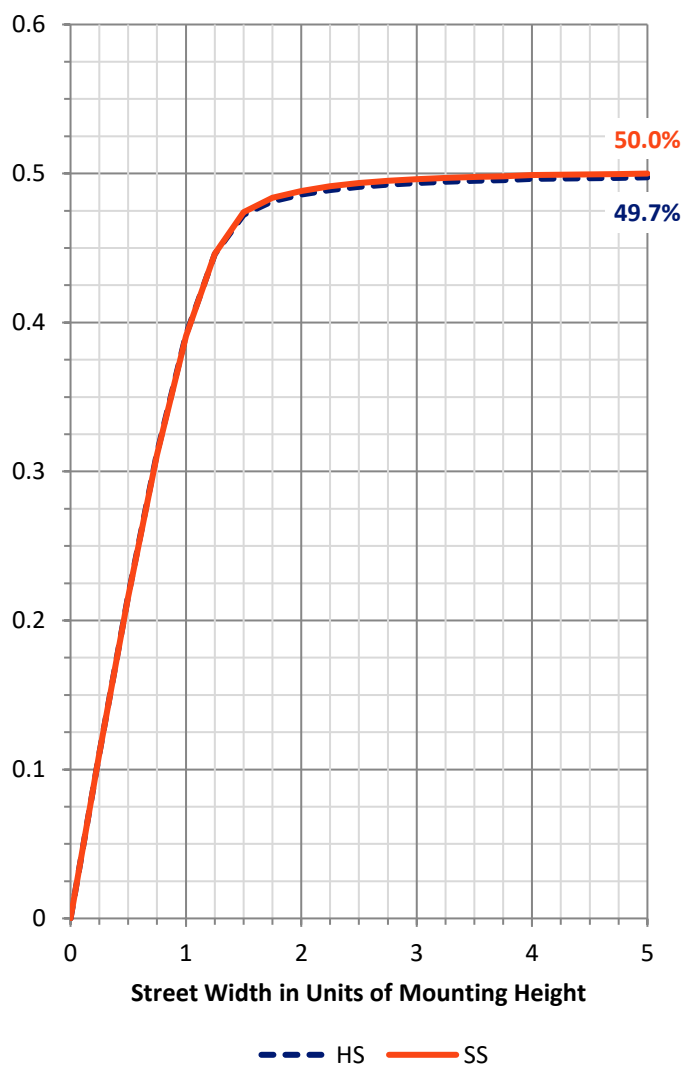
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8957.5	0.0	8957.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8957.5	0.0	8957.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17915.0	0.0	17915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.2	1.6
10°-20°	966.8	5.4
20°-30°	1840.6	10.3
30°-40°	3160.5	17.6
40°-50°	4857.8	27.1
50°-60°	4933.0	27.5
60°-70°	1374.8	7.7
70°-80°	405.5	2.3
80°-90°	81.7	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17915.0	100.0
0°-180°	17915.0	100.0

Coefficient of Utilization

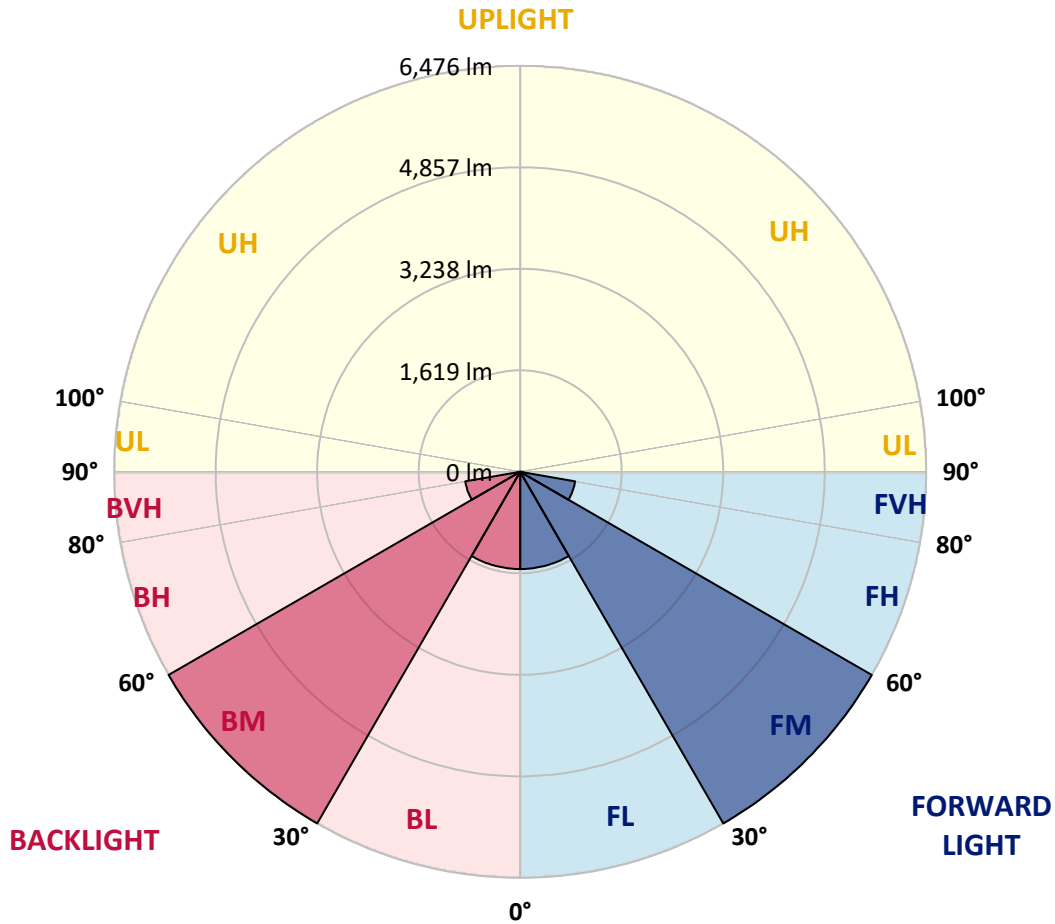


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.8	8.7			
FM (30°-60°)	6475.7	36.1			
FH (60°-80°)	890.1	5.0			G1/1800
FVH (80°-90°)	40.8	0.2			G1/100
BL (0°-30°)	1550.8	8.7	B3/2500		
BM (30°-60°)	6475.7	36.1	B4/8500		
BH (60°-80°)	890.1	5.0	B2/1000		G1/1800
BVH (80°-90°)	40.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7
2.5°	3001.4	2970.3	2981.4	2988.1	3017.0	3014.7	3008.1	3017.0	3025.9	3028.1	3023.6
5°	2999.2	2976.9	2985.8	2992.5	3021.4	3037.0	3032.5	3070.3	3097.0	3090.3	3123.7
7.5°	2981.4	2994.7	2983.6	3017.0	3041.4	3079.2	3119.2	3154.8	3188.2	3225.9	3232.6
10°	3021.4	3021.4	3041.4	3068.1	3132.6	3161.5	3219.3	3270.4	3334.9	3379.4	3361.6
12.5°	3063.6	3070.3	3070.3	3139.2	3192.6	3257.1	3310.4	3379.4	3470.5	3523.9	3550.5
15°	3105.9	3110.3	3132.6	3225.9	3306.0	3408.3	3457.2	3519.4	3570.6	3670.6	3672.8
17.5°	3143.7	3168.1	3234.8	3339.3	3439.4	3537.2	3615.0	3679.5	3724.0	3764.0	3755.1
20°	3286.0	3303.8	3372.7	3477.2	3626.1	3721.7	3748.4	3759.5	3788.4	3868.5	3844.0
22.5°	3423.8	3430.5	3495.0	3655.0	3759.5	3886.3	3915.2	3908.5	3919.6	3939.6	3975.2
25°	3566.1	3577.2	3666.2	3801.8	3948.5	4099.7	4124.1	4073.0	4057.4	4079.7	4081.9
27.5°	3748.4	3750.6	3864.0	3981.9	4148.6	4290.9	4328.7	4288.7	4215.3	4233.1	4262.0
30°	3979.6	3964.1	4077.5	4246.4	4422.1	4502.1	4566.6	4546.6	4466.5	4451.0	4426.5
32.5°	4246.4	4250.9	4353.1	4537.7	4653.3	4786.7	4855.6	4822.2	4771.1	4744.4	4760.0
35°	4622.2	4642.2	4711.1	4864.5	5051.2	5117.9	5226.9	5155.7	5022.3	5055.7	5084.6
37.5°	4931.2	4989.0	5117.9	5300.2	5411.4	5533.7	5573.7	5478.1	5380.3	5340.3	5435.9
40°	5404.7	5387.0	5529.2	5711.5	5876.1	5998.3	5947.2	5851.6	5609.3	5611.5	5638.2
42.5°	5811.6	5820.5	5929.4	6147.3	6371.9	6447.4	6285.1	6051.7	5782.7	5753.8	5811.6
45°	6154.0	6189.5	6251.8	6543.0	6763.2	6845.4	6545.3	6269.6	5909.4	5789.4	5885.0
47.5°	6276.3	6334.1	6469.7	6736.5	6954.4	7021.0	6780.9	6385.2	6027.3	5831.6	5882.7
50°	6294.0	6274.0	6496.4	6740.9	6932.1	7076.6	6865.4	6469.7	5998.3	5896.1	5880.5
52.5°	5807.1	5905.0	6142.9	6478.6	6865.4	7096.6	6941.0	6516.4	6038.4	5922.8	5885.0
55°	4700.0	4584.4	5017.9	5582.6	6294.0	6936.6	6914.3	6540.8	6062.8	5967.2	5916.1
57.5°	2623.4	2656.8	2901.4	3515.0	4433.2	5500.3	6147.3	6282.9	6051.7	5996.1	6022.8
60°	1213.9	1225.0	1329.5	1616.3	2185.5	3119.2	3970.7	4835.6	5233.5	5313.6	5313.6
62.5°	904.9	900.4	927.1	978.2	1098.3	1434.0	1914.2	2601.2	3148.1	3530.5	3630.6
65°	818.2	815.9	829.3	847.1	856.0	902.6	1009.4	1220.6	1398.4	1500.7	1482.9
67.5°	715.9	713.7	718.1	729.2	744.8	769.2	795.9	840.4	902.6	898.2	887.1
70°	578.0	578.0	584.7	593.6	611.4	640.3	671.4	702.5	755.9	767.0	764.8
72.5°	426.9	420.2	433.5	451.3	469.1	504.7	538.0	566.9	604.7	615.8	611.4
75°	271.2	275.7	284.6	304.6	335.7	360.2	395.7	420.2	444.7	453.5	455.8
77.5°	151.2	155.6	171.2	195.6	226.8	253.5	284.6	304.6	320.1	322.4	324.6
80°	91.2	93.4	108.9	131.2	157.9	186.8	211.2	231.2	244.6	237.9	235.7
82.5°	55.6	57.8	71.1	91.2	113.4	135.6	162.3	180.1	193.4	184.5	175.6
85°	28.9	31.1	42.2	55.6	73.4	84.5	84.5	75.6	73.4	68.9	66.7
87.5°	8.9	8.9	11.1	13.3	11.1	13.3	15.6	17.8	17.8	20.0	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)